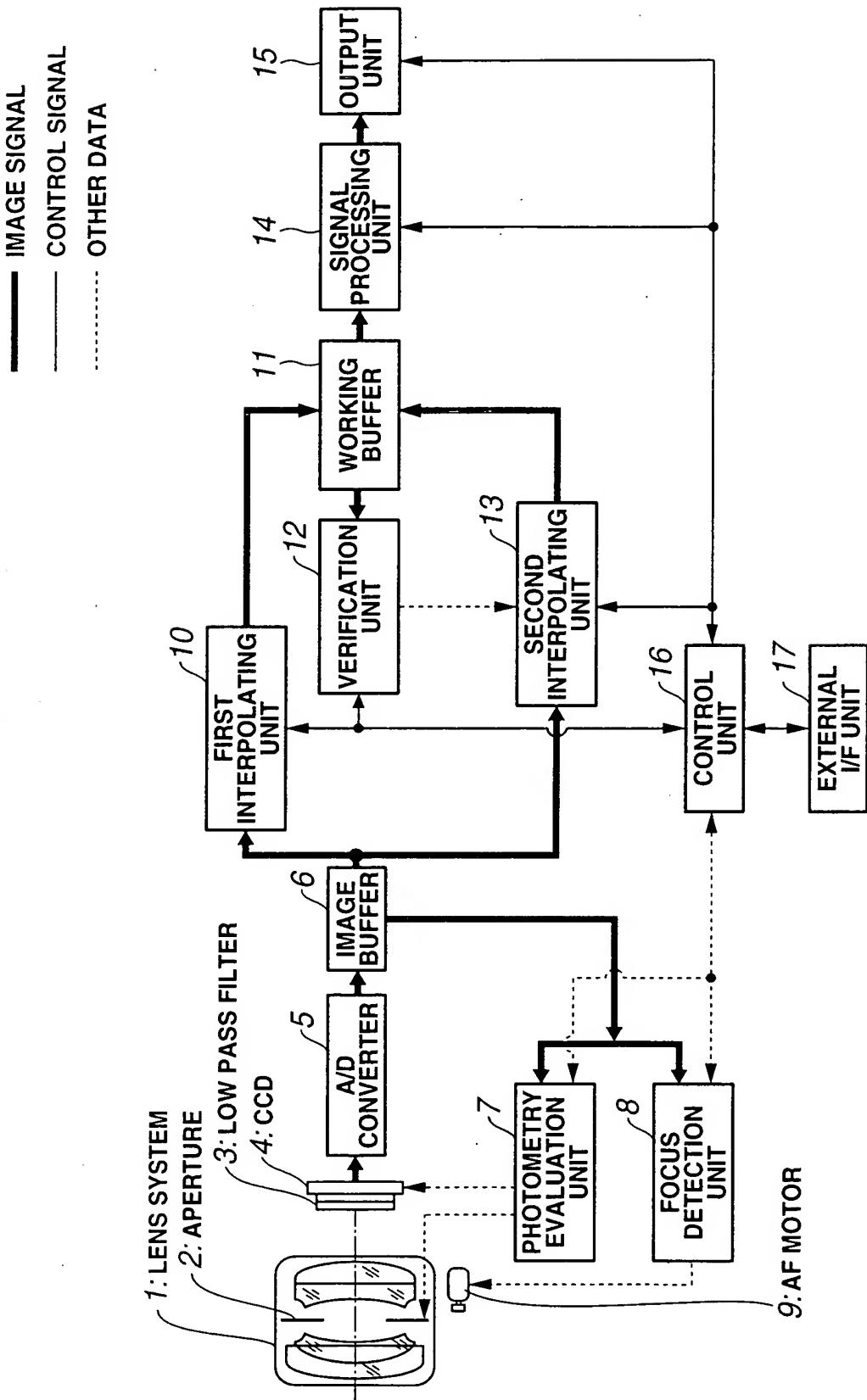


**FIG. 1**

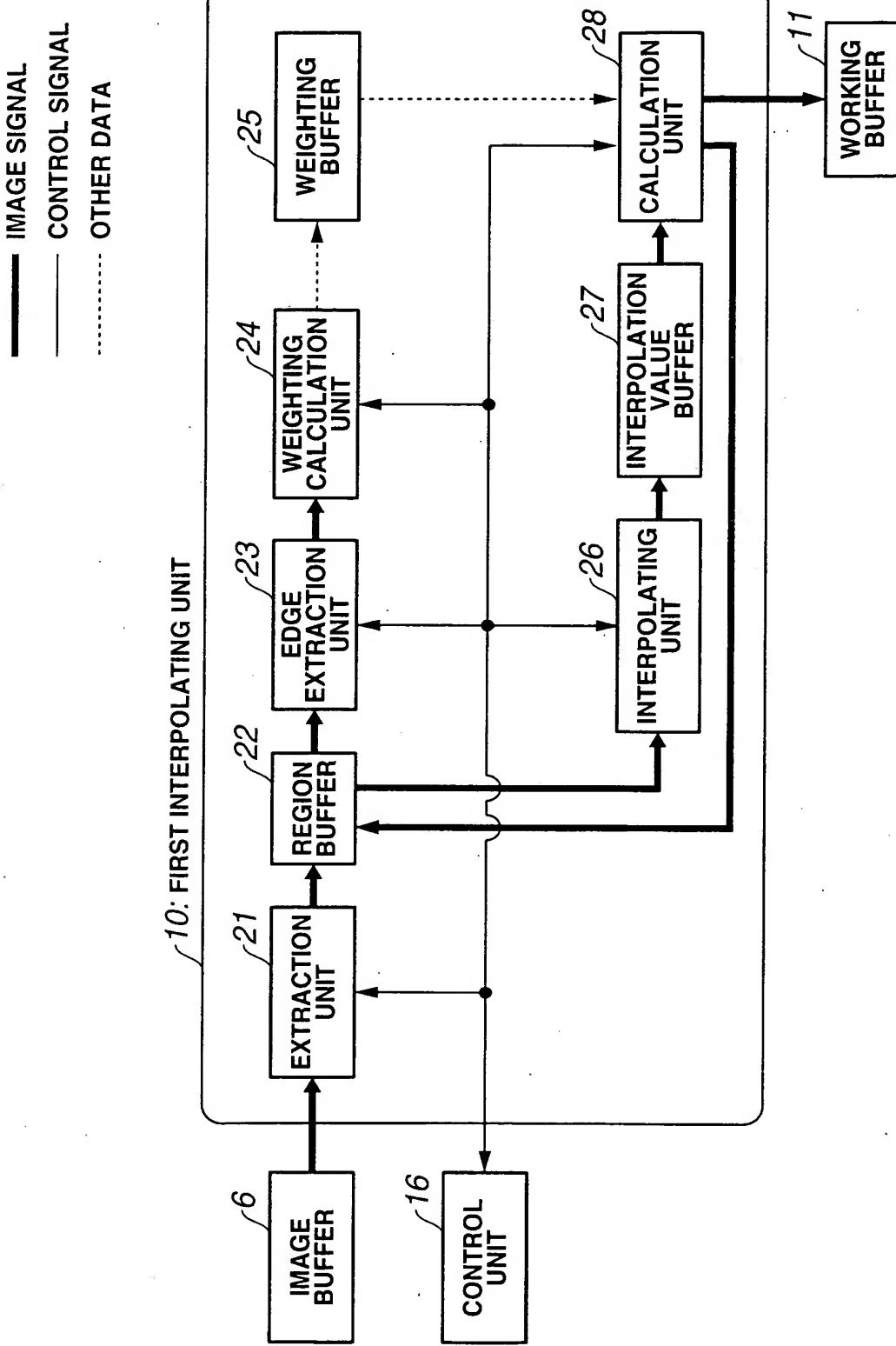
**FIG.2****(A)**

R	G
G	B

**(B)**

R	G	R	G	R	G	R	G	.....
G	B	G	B	G	B	G	B	
R	G	R	G	R	G			
G	B	G	B	G	B			
R	G	R	G	R	G			
G	B	G	B	G	B			
R	G							
G	B							

FIG.3



# FIG.4

**(A) PIXEL LAYOUT OF EXTRACTED BLOCK**

R00	G10	R20	G30	R40	G50
G01	B11	G21	B31	G41	B51
R02	G12	R22	G32	R42	G52
G03	B13	G23	B33	G43	B53
R04	G14	R24	G34	R44	G54
G05	B15	G25	B35	G45	B55

**(B) G INTERPOLATION (R22 POSITION)**

	R20	
	G21	
R02	G12	R22
	G23	
	R24	

**(C) G INTERPOLATION (B33 VALUE)**

	B31	
	G32	
B13	G23	B33
	G34	
	B35	

**(D) R,B INTERPOLATION (G23 VALUE)**

	B11	B31	
	G11	G31	
R02		R22	R42
G02		G22	G42
	B13	G23	B33
	G13		G33
R04		R24	R44
G04		G24	G44
	B15	B35	
	G15	G35	

**(E) R,B INTERPOLATION (G32 VALUE)**

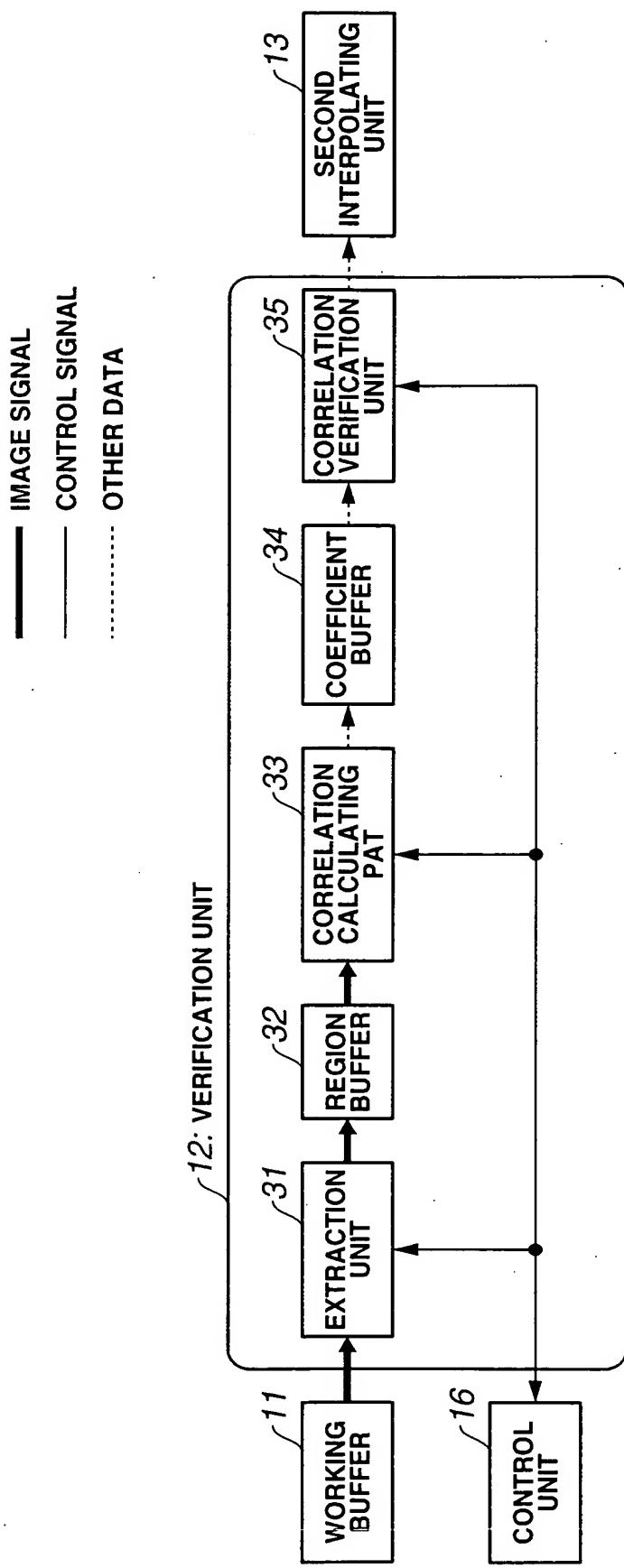
	R20	R40	
	G20	G40	
B11		B31	B51
G11		G31	G51
	R22	R42	
	G22	G42	
B13		B33	B53
G13		G33	G53
	R24	R44	
	G24	G44	

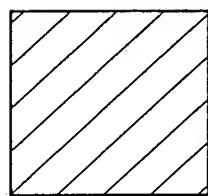
**(F) R,B INTERPOLATION (R22 POSITION)**

	B11	B31	
	G11	G31	
	R22		R42
	G22		G42
B13		B33	
G13		G33	

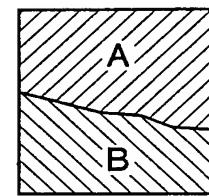
**(G) R,B INTERPOLATION (B33 POSITION)**

	R22	R42	
	G22	G42	
	B33		B53
	G33		G53
R24		R44	
G24		G44	

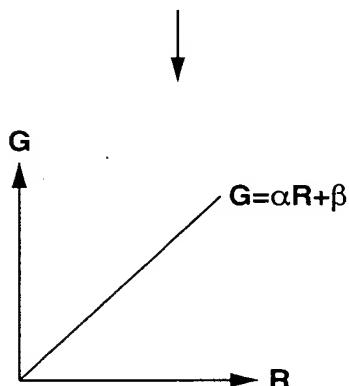
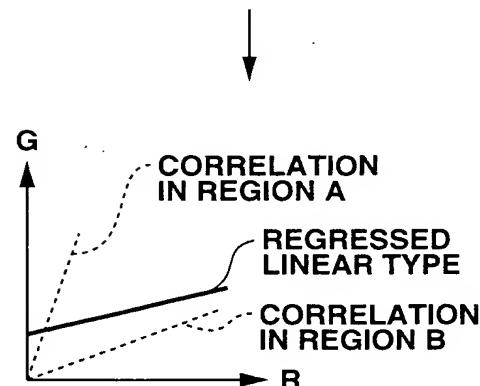
**FIG.5**

**FIG.6**

(A) SINGLE HUE INPUT IMAGE



(C) MULTI-HUE INPUT IMAGE

(B) REGRESSION TO  
SINGLE HUE LINEAR TYPE(D) REGRESSION TO  
MULTI-HUE LINEAR TYPE

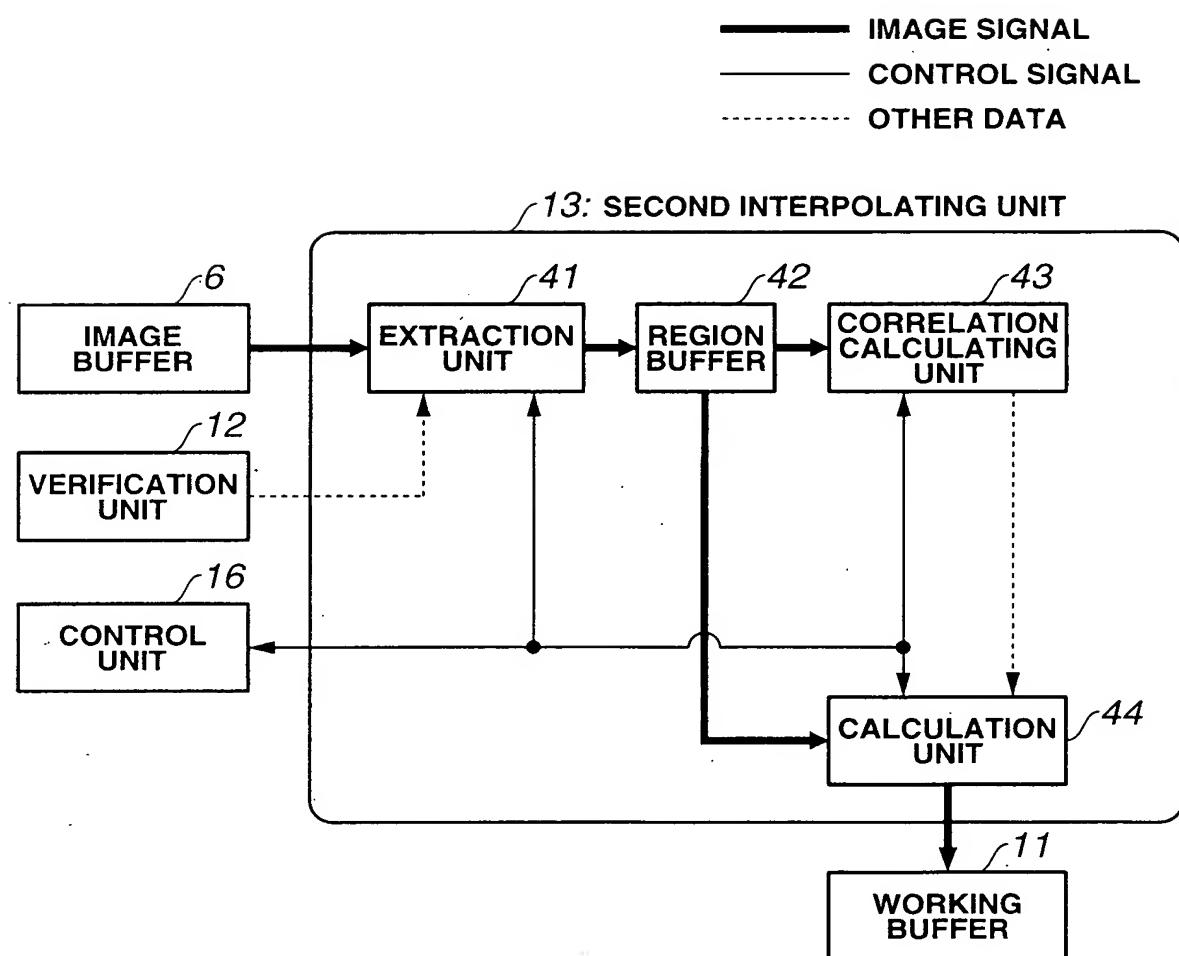
**FIG.7**

FIG.8

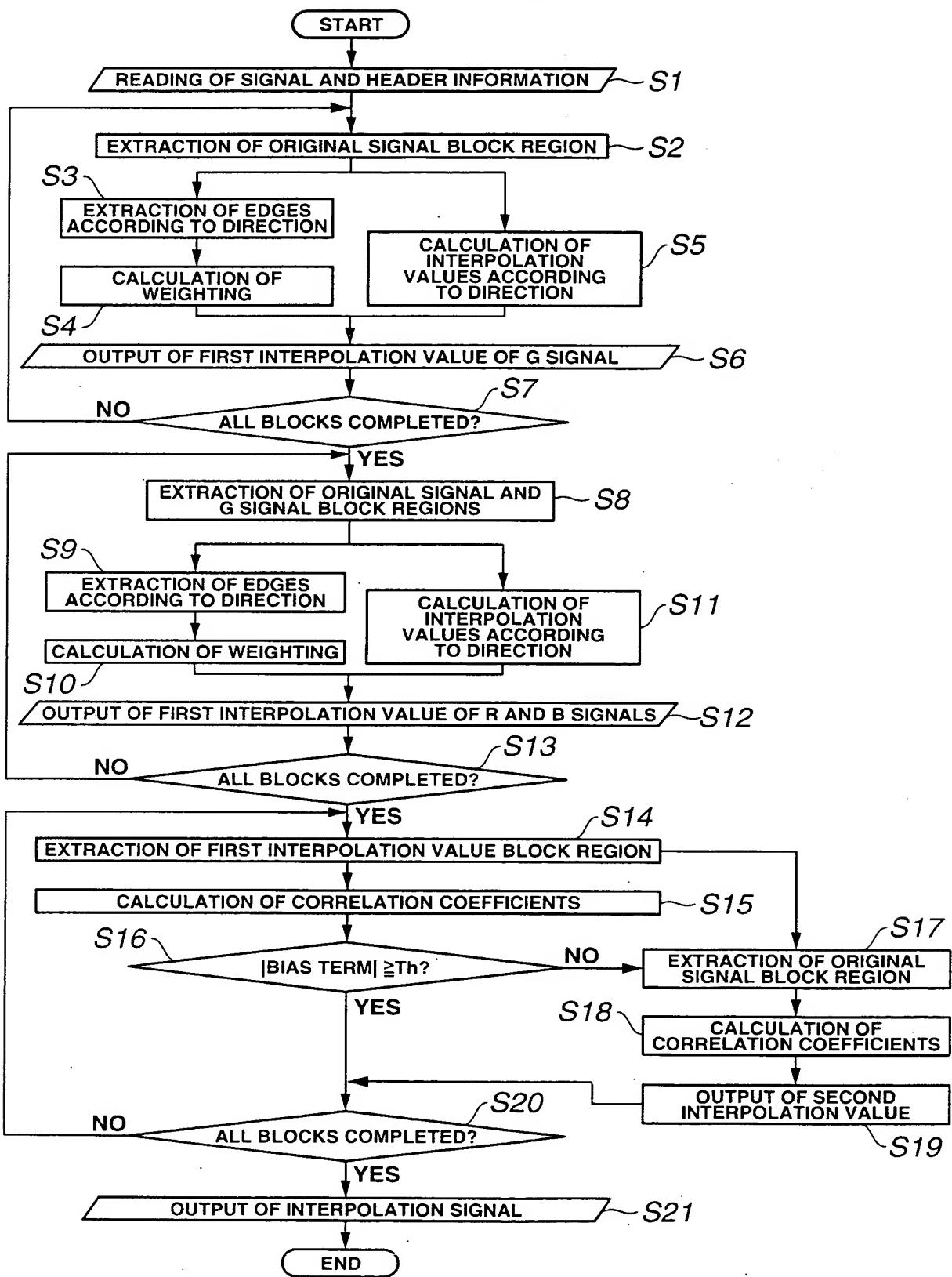
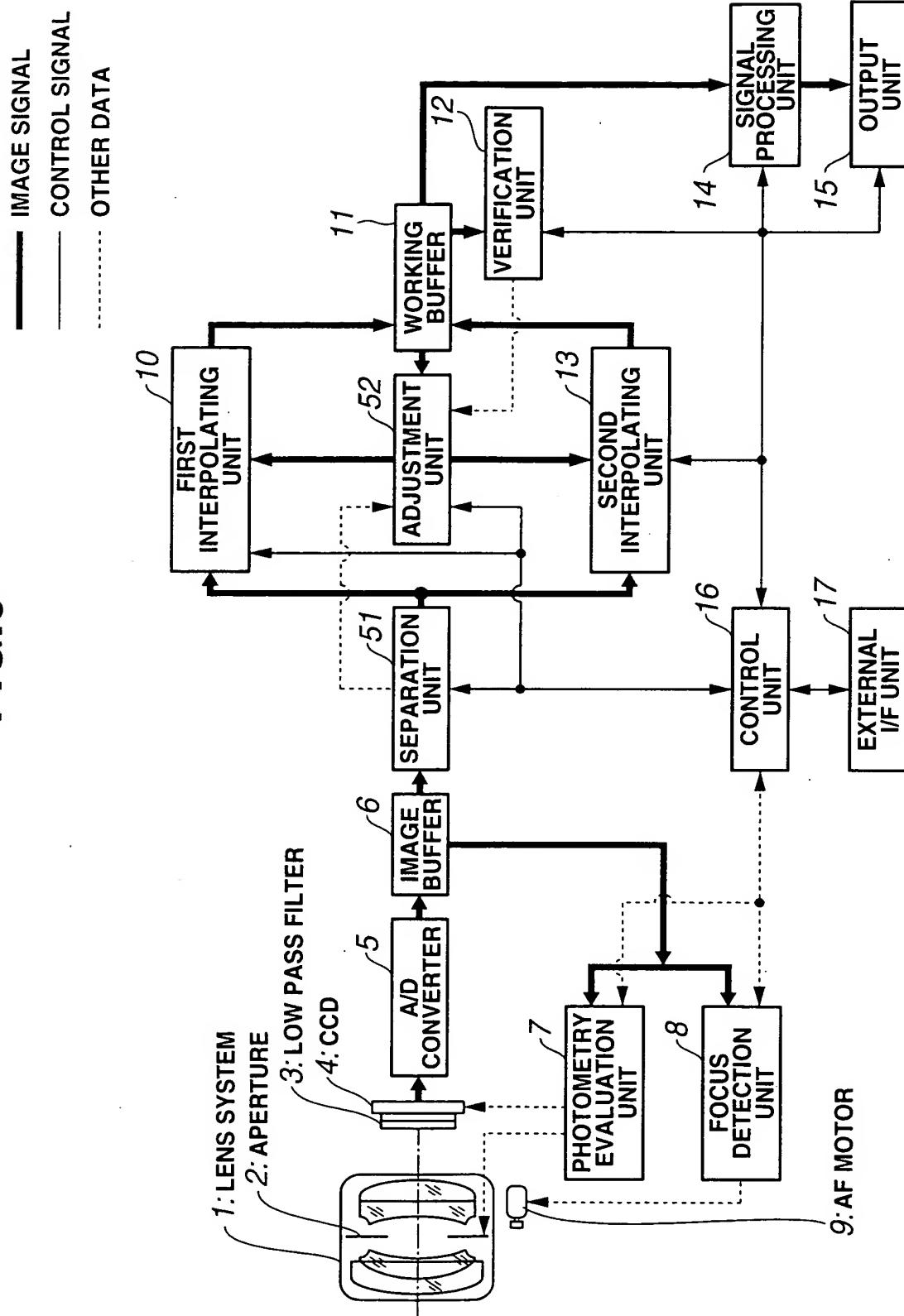
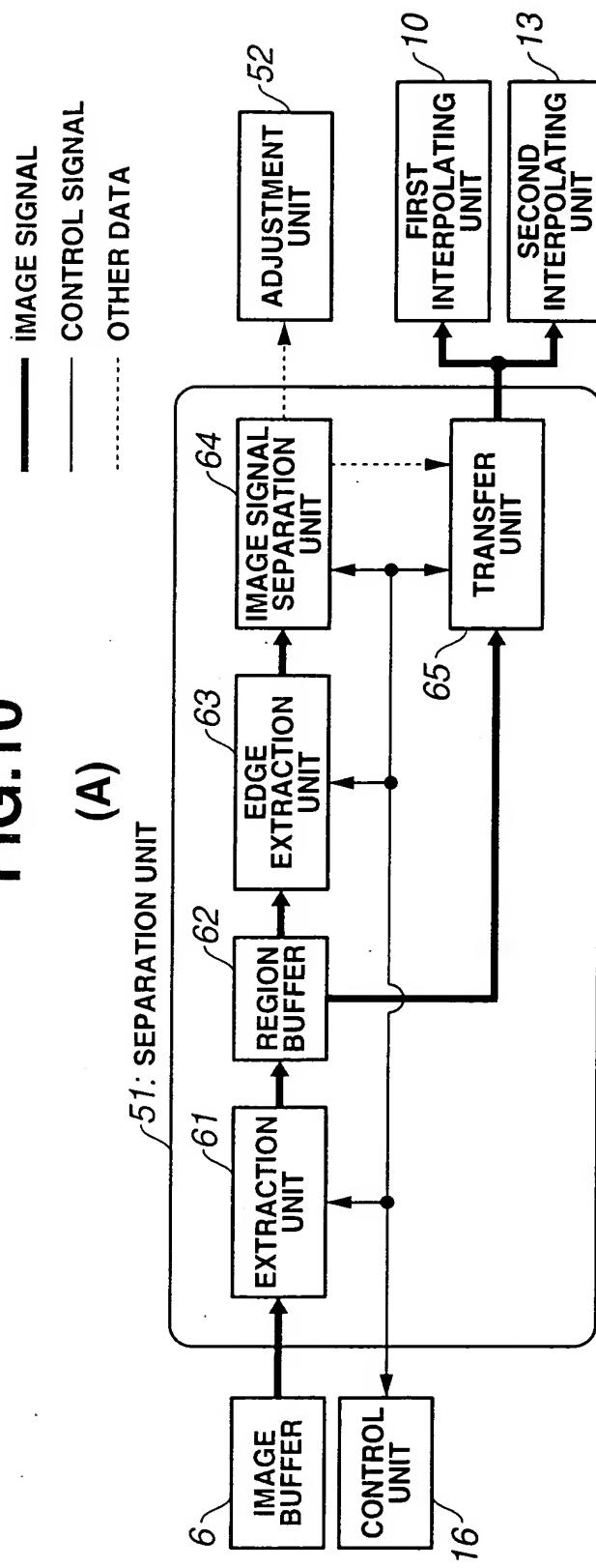
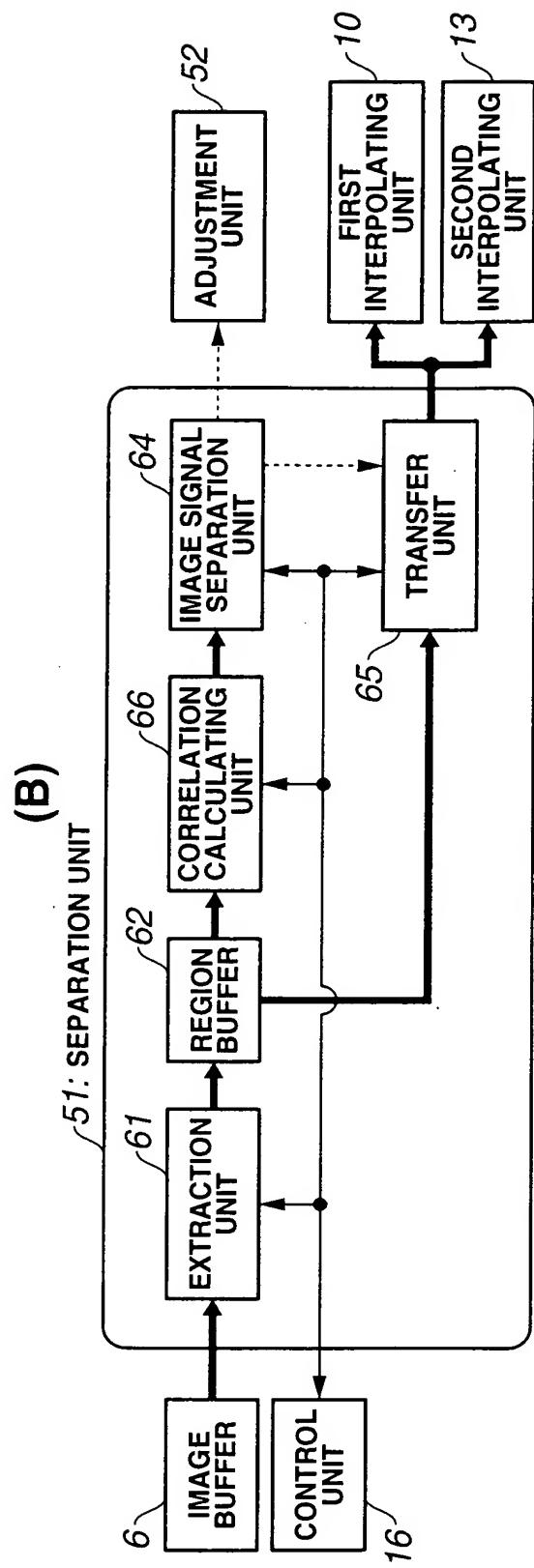


FIG.9



**FIG.10****(A)****(B)**

**FIG.11****(A)**

	R <sub>0</sub>	
R <sub>1</sub>	R	R <sub>2</sub>
	R <sub>3</sub>	

$$\begin{aligned}E_0 &= | R - R_0 | \\E_1 &= | R - R_1 | \\E_2 &= | R - R_2 | \\E_3 &= | R - R_3 |\end{aligned}$$

**(B)**

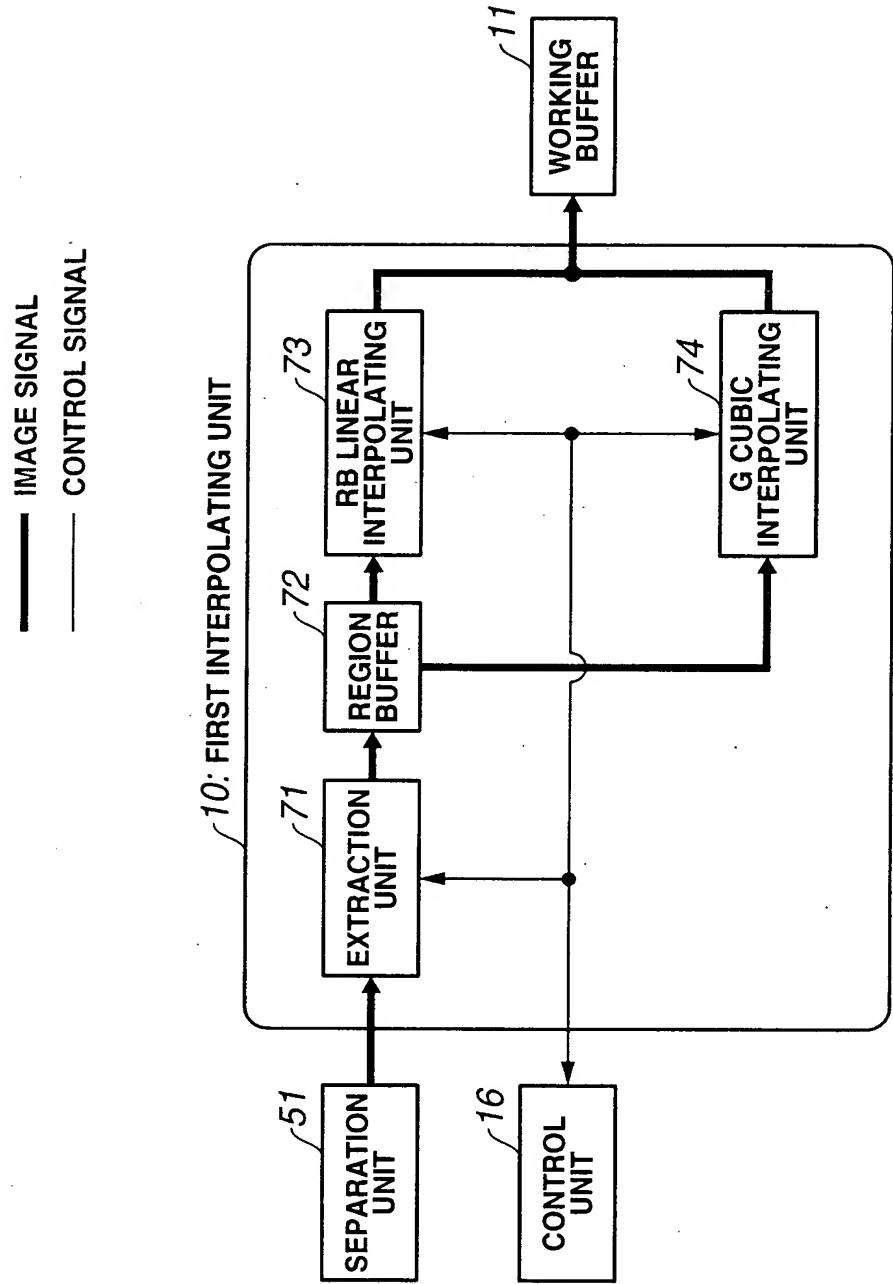
G <sub>0</sub>	G <sub>1</sub>
	G
G <sub>2</sub>	G <sub>3</sub>

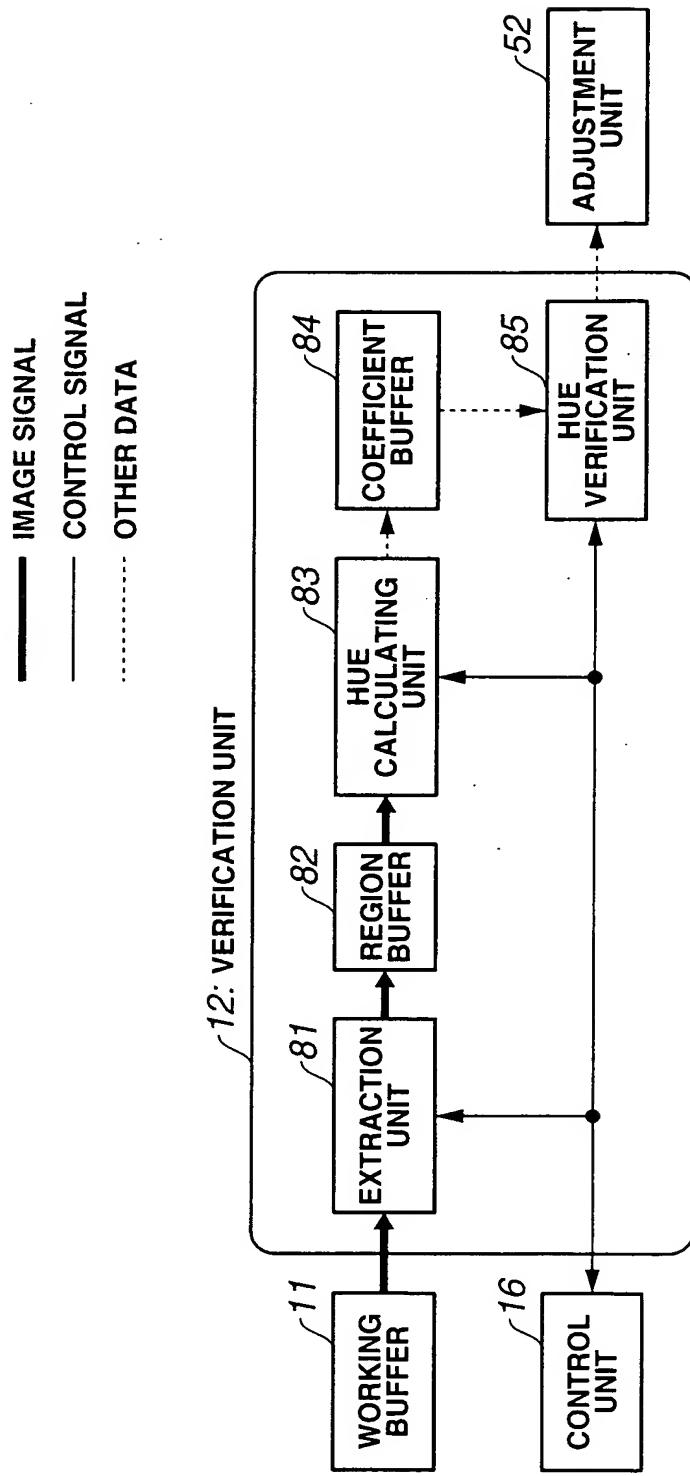
$$\begin{aligned}E_0 &= | G - G_0 | \\E_1 &= | G - G_1 | \\E_2 &= | G - G_2 | \\E_3 &= | G - G_3 |\end{aligned}$$

**(C)**

B <sub>0</sub>		
B <sub>1</sub>	B	B <sub>2</sub>
	B <sub>3</sub>	

$$\begin{aligned}E_0 &= | B - B_0 | \\E_1 &= | B - B_1 | \\E_2 &= | B - B_2 | \\E_3 &= | B - B_3 |\end{aligned}$$

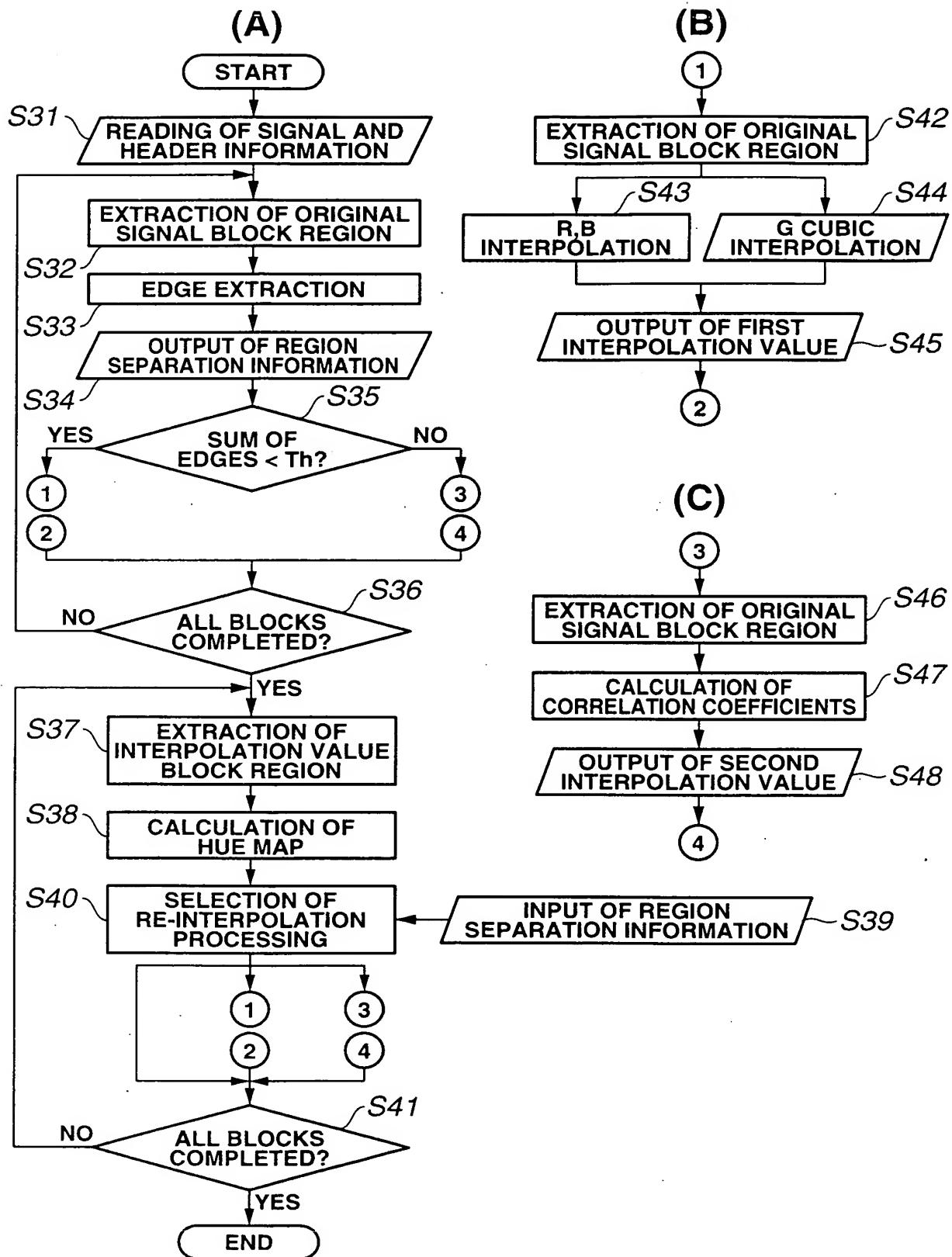
**FIG.12**

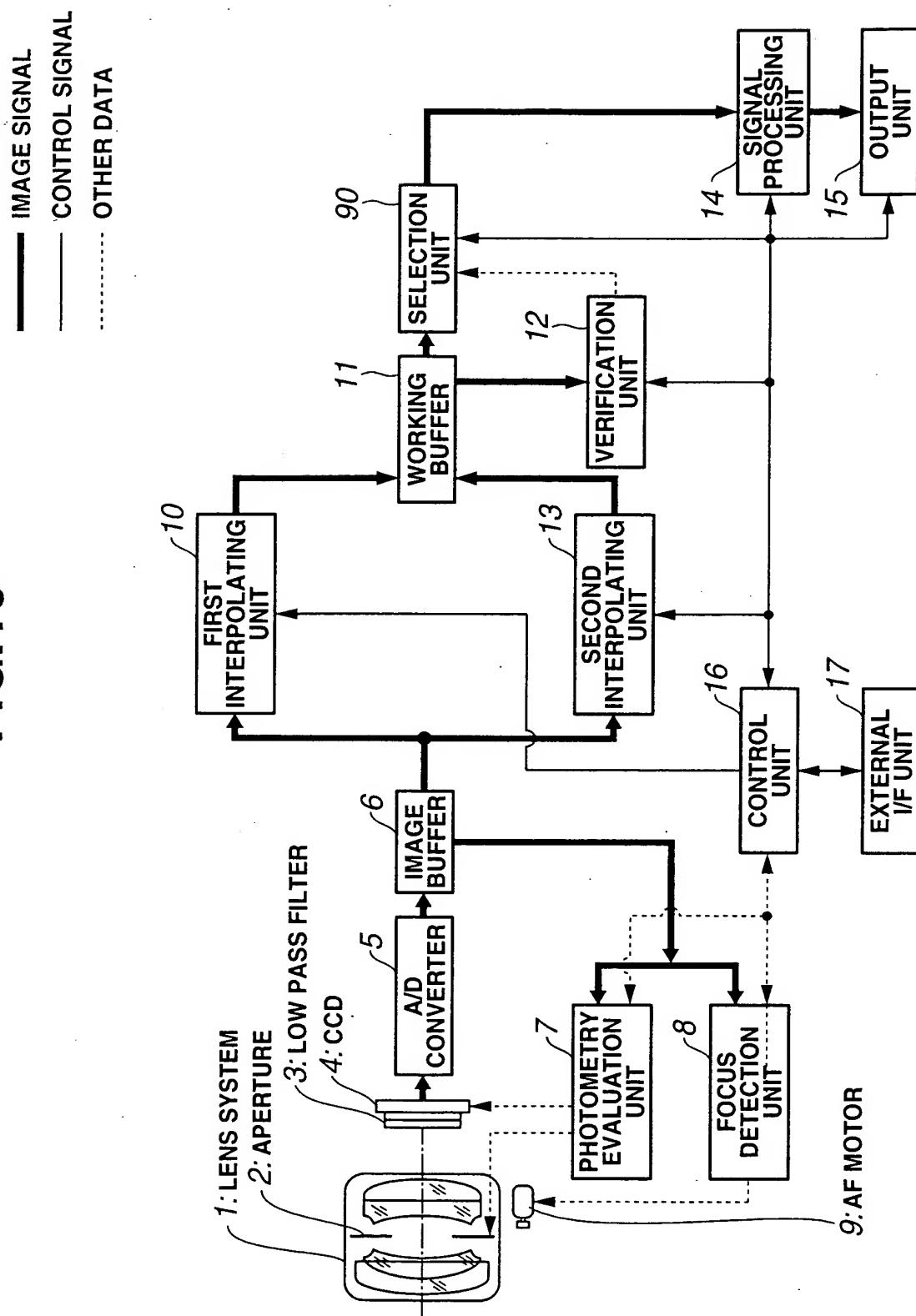
**FIG. 13**

## FIG.14

CLASS	RGB RELATIONSHIP
0	R = G = B
1	B > R > G
2	R = B > G
3	R > B > G
4	R > G = B
5	R > G > B
6	R = G > B
7	G > R > B
8	G > R = B
9	G > B > R
10	G = B > R
11	B > G > R
12	B > R = G

FIG.15



**FIG.16**

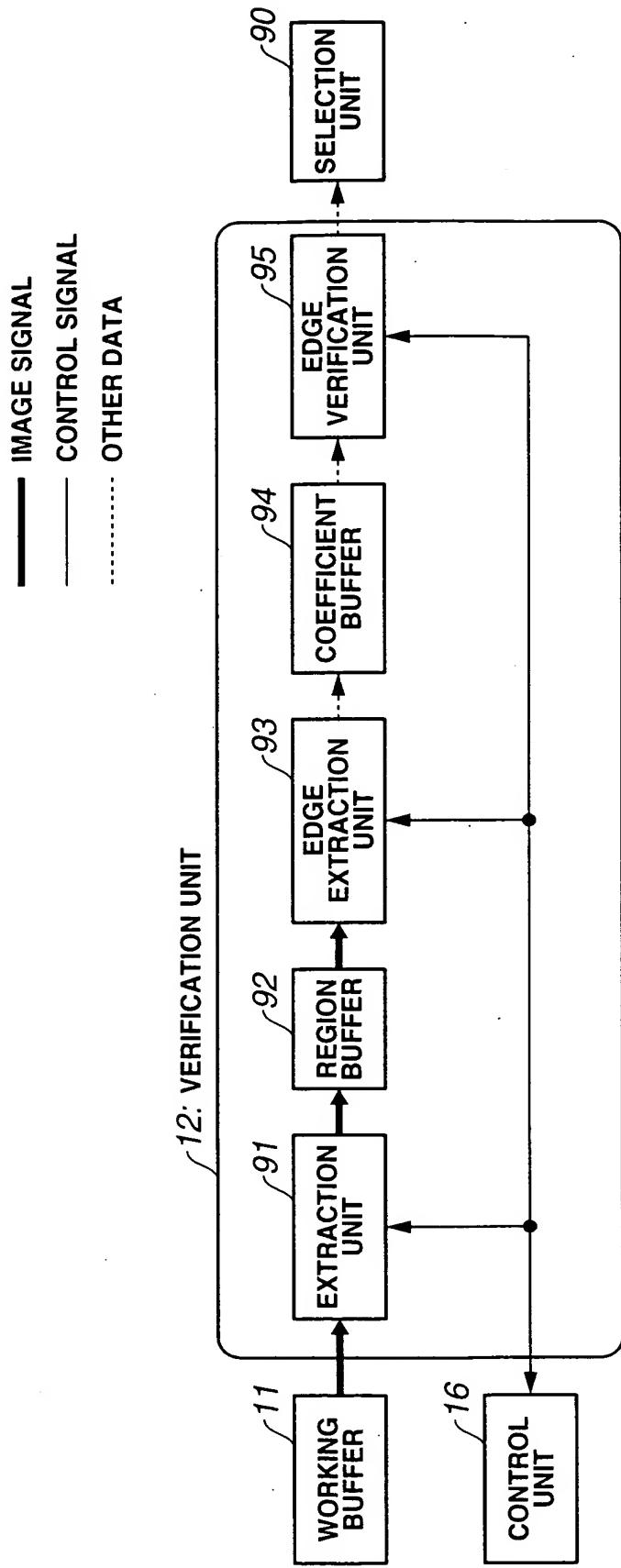
**FIG.17**

FIG.18

